

# Alain Milon

## List of Publications by Year in descending order

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97  
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docs citations

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times ranked

3948  
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#	ARTICLE	IF	CITATIONS
1	Structure and dynamics of G protein-coupled receptor-bound ghrelin reveal the critical role of the octanoyl chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17525-17530.	7.1	53
2	Structure and dynamics of dynorphin peptide and its receptor. <i>Vitamins and Hormones</i> , 2019, 111, 17-47.	1.7	18
3	A protein nanocontainer targeting epithelial cancers: rational engineering, biochemical characterization, drug loading and cell delivery. <i>Nanoscale</i> , 2019, 11, 3248-3260.	5.6	6
4	The conical shape of DIM lipids promotes <i>Mycobacterium tuberculosis</i> infection of macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25649-25658.	7.1	49
5	Small molecule-based targeting of TTD-A dimerization to control TFIIH transcriptional activity represents a potential strategy for anticancer therapy. <i>Journal of Biological Chemistry</i> , 2018, 293, 14974-14988.	3.4	12
6	Local and Global Dynamics in <i>Klebsiella pneumoniae</i> Outer Membrane Protein a in Lipid Bilayers Probed at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1590-1597.	13.7	41
7	Identification of specific posttranslational <i>O</i> -mycoloylations mediating protein targeting to the mycomembrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4231-4236.	7.1	24
8	The One-carbon Carrier Methylofuran from <i>Methylobacterium extorquens</i> AM1 Contains a Large Number of $\alpha$ - and $\beta$ -Linked Glutamic Acid Residues. <i>Journal of Biological Chemistry</i> , 2016, 291, 9042-9051.	3.4	8
9	The C-terminal region of the transcriptional regulator THAP11 forms a parallel coiled-coil domain involved in protein dimerization. <i>Journal of Structural Biology</i> , 2016, 194, 337-346.	2.8	10
10	NMR structure and dynamics of the agonist dynorphin peptide bound to the human kappa opioid receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11852-11857.	7.1	80
11	Search for the Most "primitive" Membranes and Their Reinforcers: A Review of the Polyprenyl Phosphates Theory. <i>Origins of Life and Evolution of Biospheres</i> , 2014, 44, 197-208.	1.9	21
12	Cholesterol-GPCR (B2AR) Interaction in Lipidic Cubic Phase: Insight from $^{13}\text{C}$ NMR. <i>Biophysical Journal</i> , 2014, 106, 715a.	0.5	0
13	Mutation of a pH-modulating residue in a GH51 $\alpha$ -L-arabinofuranosidase leads to a severe reduction of the secondary hydrolysis of transfuransylation products. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 626-636.	2.4	20
14	The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor $\beta$ modulation, uncoupling nuclear and membrane activation. <i>EMBO Molecular Medicine</i> , 2014, 6, 1328-1346.	6.9	96
15	Two Classes of Cholesterol Binding Sites for the $\beta_2$ AR Revealed by Thermostability and NMR. <i>Biophysical Journal</i> , 2014, 107, 2305-2312.	0.5	50
16	NMR Analyses of the Structure and Dynamics of <i>Klebsiella Pneumoniae</i> OMPA Domains and Full Length Protein. <i>Biophysical Journal</i> , 2014, 106, 193a.	0.5	0
17	NMR studies of a new family of DNA binding proteins: the THAP proteins. <i>Journal of Biomolecular NMR</i> , 2013, 56, 3-15.	2.8	23
18	Cord factor (trehalose 6,6'-dimycolate) forms fully stable and non-permeable lipid bilayers required for a functional outer membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 2173-2181.	2.6	11

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19	NMR localization of the O <sup>6</sup> -methyloloylation on PorH, a channel forming peptide from <i>Corynebacterium glutamicum</i> . FEBS Letters, 2013, 587, 3687-3691.	2.8	10
20	Engineering transglycosidase activity into a GH51 $\beta$ -L-arabinofuranosidase. New Biotechnology, 2013, 30, 536-544.	4.4	29
21	Hydrogen Bonding of Cholesterol in the Lipidic Cubic Phase. Langmuir, 2013, 29, 8031-8038.	3.5	35
22	Virtual and Biophysical Screening Targeting the $\beta$ -Tubulin Complex – A New Target for the Inhibition of Microtubule Nucleation. PLoS ONE, 2013, 8, e63908.	2.5	13
23	Towards the classification of DYT6 dystonia mutants in the DNA-binding domain of THAP1. Nucleic Acids Research, 2012, 40, 9927-9940.	14.5	21
24	Functional roles of H98 and W99 and $\beta$ 2 loop dynamics in the $\beta$ -arabinofuranosidase from <i>Thermobacillus xylanilyticus</i> . FEBS Journal, 2012, 279, 3598-3611.	4.7	15
25	Dynamics of <i>Klebsiella pneumoniae</i> OmpA transmembrane domain: The four extracellular loops display restricted motion behavior in micelles and in lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2344-2353.	2.6	4
26	The Monoolein-Cholesterol Cubic Phase: Characterization by NMR Spectroscopy. Biophysical Journal, 2012, 102, 390a.	0.5	0
27	The Transmembrane Protein KpOmpA Anchoring the Outer Membrane of <i>Klebsiella pneumoniae</i> Unfolds and Refolds in Response to Tensile Load. Structure, 2012, 20, 121-127.	3.3	38
28	NMR-Based Structural Glycomics for High-Throughput Screening of Carbohydrate-Active Enzyme Specificity. Analytical Chemistry, 2011, 83, 1202-1206.	6.5	28
29	Nuclear magnetic resonance analysis of protein-DNA interactions. Journal of the Royal Society Interface, 2011, 8, 1065-1078.	3.4	31
30	Functional Expression of the PorAH Channel from <i>Corynebacterium glutamicum</i> in Cell-free Expression Systems. Journal of Biological Chemistry, 2011, 286, 32525-32532.	3.4	27
31	The N-Terminal End Truncated Mu-Opioid Receptor: from Expression to Circular Dichroism Analysis. Applied Biochemistry and Biotechnology, 2010, 160, 2175-2186.	2.9	9
32	Order Parameters of a Transmembrane Helix in a Fluid Bilayer: Case Study of a WALP Peptide. Biophysical Journal, 2010, 98, 1864-1872.	0.5	51
33	Structural determinants of specific DNA-recognition by the THAP zinc finger. Nucleic Acids Research, 2010, 38, 3466-3476.	14.5	59
34	GATEWAY <sup>®</sup> technology and <i>E. coli</i> recombinant system produce a properly folded and functional recombinant allergen of the lipid transfer protein of apple (Mal d 3). Protein Expression and Purification, 2010, 70, 277-282.	1.3	5
35	Modelling the influence of hydrogen bond network on chemical shielding tensors description. GIAO-DFT study of WALP23 transmembrane $\beta$ -helix as a test case. Physical Chemistry Chemical Physics, 2010, 12, 6999.	2.8	3
36	Solution-State NMR Spectroscopy of Membrane Proteins in Detergent Micelles: Structure of the <i>Klebsiella pneumoniae</i> Outer Membrane Protein A, KpOmpA. Methods in Molecular Biology, 2010, 654, 321-339.	0.9	4

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37	Study of the Specific Lipid Binding Properties of A $\beta$ <sup>25-35</sup> Fragment at Endosomal pH. <i>Langmuir</i> , 2009, 25, 10948-10953.	3.5	6
38	Structural properties of a peptide derived from H <sup>+</sup> -V-ATPase subunit a. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1204-1212.	2.6	2
39	Solution State NMR Structure and Dynamics of KpOmpA, a 210 Residue Transmembrane Domain Possessing a High Potential for Immunological Applications. <i>Journal of Molecular Biology</i> , 2009, 385, 117-130.	4.2	45
40	The Full-Length Mu-Opioid Receptor: A Conformational Study by Circular Dichroism in Trifluoroethanol and Membrane-Mimetic Environments. <i>Journal of Membrane Biology</i> , 2008, 223, 49-57.	2.1	16
41	Structural insights on the pamoic acid and the 8 kDa domain of DNA polymerase beta complex: Towards the design of higher-affinity inhibitors. <i>BMC Structural Biology</i> , 2008, 8, 22.	2.3	22
42	Description of the low-affinity interaction between nociceptin and the second extracellular loop of its receptor by fluorescence and NMR spectroscopies. <i>Journal of Peptide Science</i> , 2008, 14, 1183-1194.	1.4	6
43	Structure-Function Analysis of the THAP Zinc Finger of THAP1, a Large C2CH DNA-binding Module Linked to Rb/E2F Pathways. <i>Journal of Biological Chemistry</i> , 2008, 283, 4352-4363.	3.4	76
44	The <i>Ralstonia solanacearum</i> pathogenicity regulator HrpB induces 3-hydroxy-oxindole synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 15870-15875.	7.1	28
45	Peptides as tools and drugs for immunotherapies. <i>Journal of Peptide Science</i> , 2007, 13, 588-602.	1.4	23
46	Acyl chain order parameter profiles in phospholipid bilayers: computation from molecular dynamics simulations and comparison with 2H NMR experiments. <i>European Biophysics Journal</i> , 2007, 36, 919-931.	2.2	304
47	<i>Methylobacterium extorquens</i> AM1 produces a novel type of acyl-homoserine lactone with a double unsaturated side chain under methylo-trophic growth conditions. <i>FEBS Letters</i> , 2006, 580, 561-567.	2.8	36
48	Giant vesicles as an efficient intermediate for 2H NMR analyses of proteoliposomes in water suspension and in oriented lipid bilayers. <i>Comptes Rendus Chimie</i> , 2006, 9, 401-407.	0.5	1
49	High-resolution 13C NMR of sterols in model membrane. <i>Comptes Rendus Chimie</i> , 2006, 9, 393-400.	0.5	8
50	Incorporation of phytosterols in human keratinocytes. <i>Chemistry and Physics of Lipids</i> , 2006, 141, 216-224.	3.2	14
51	Recombinant G protein-coupled receptors from expression to renaturation: a challenge towards structure. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 1149-1164.	5.4	85
52	Solubilization, purification, and mass spectrometry analysis of the human mu-opioid receptor expressed in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2005, 43, 85-93.	1.3	44
53	Fusogenic Alzheimer's peptide fragment A $\beta$ <sup>25-35</sup> (29-42) in interaction with lipid bilayers: Secondary structure, dynamics, and specific interaction with phosphatidyl ethanolamine polar heads as revealed by solid-state NMR. <i>Protein Science</i> , 2005, 14, 1181-1189.	7.6	24
54	Determination of the Orientation and Dynamics of Ergosterol in Model Membranes Using Uniform 13C Labeling and Dynamically Averaged 13C Chemical Shift Anisotropies as Experimental Restraints. <i>Biophysical Journal</i> , 2005, 89, 1120-1131.	0.5	22

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55	Partial atomic charges of amino acids in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 56, 102-109.	2.6	22
56	$^{15}\text{N}$ relaxation times of bacteriorhodopsin transmembrane amide nitrogens. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 212-217.	1.9	7
57	Understanding Sterol-Membrane Interactions Part I: Hartree-Fock versus DFT Calculations of $^{13}\text{C}$ and $^1\text{H}$ NMR Isotropic Chemical Shifts of Sterols in Solution and Analysis of Hydrogen-Bonding Effects. <i>Chemistry - A European Journal</i> , 2004, 10, 5996-6004.	3.3	24
58	Understanding Sterol-Membrane Interactions, Part II: Complete $^1\text{H}$ and $^{13}\text{C}$ Assignments by Solid-State NMR Spectroscopy and Determination of the Hydrogen-Bonding Partners of Cholesterol in a Lipid Bilayer. <i>Chemistry - A European Journal</i> , 2004, 10, 6005-6014.	3.3	42
59	Heterologous expression of G-protein-coupled receptors: comparison of expression systems from the standpoint of large-scale production and purification. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1529-1546.	5.4	214
60	Detection of natural abundance $^1\text{H}$ - $^{13}\text{C}$ correlations of cholesterol in its membrane environment using a gradient enhanced HSQC experiment under high resolution magic angle spinning. <i>Journal of Magnetic Resonance</i> , 2003, 165, 303-308.	2.1	14
61	Optimizing Functional versus Total Expression of the Human $\mu$ -Opioid Receptor in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2002, 24, 212-220.	1.3	62
62	Green fluorescent protein as a reporter of human $\mu$ -opioid receptor overexpression and localization in the methylotrophic yeast <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2002, 99, 23-39.	3.8	47
63	Generation of formate by the formyltransferase/hydrolase complex (Fhc) from <i>Methylobacterium extorquens</i> AM1. <i>FEBS Letters</i> , 2002, 523, 133-137.	2.8	54
64	Differential binding to the $\alpha$ / $\beta$ -tubulin dimer of vinorelbine and vinflunine revealed by nuclear magnetic resonance analyses. <i>Biochemical Pharmacology</i> , 2002, 64, 733-740.	4.4	7
65	Structure-antigenicity relationship studies of the central conserved region of human respiratory syncytial virus protein G. <i>Chemical Biology and Drug Design</i> , 2002, 60, 271-282.	1.1	11
66	High resolution 2D correlation of cholesterol in model membrane. <i>Journal of Magnetic Resonance</i> , 2002, 158, 143-148.	2.1	26
67	High resolution $^{13}\text{C}$ NMR spectra on oriented lipid bilayers: from quantifying the various sources of line broadening to performing 2D experiments with 0.2-0.3 ppm resolution in the carbon dimension. <i>Journal of Biomolecular NMR</i> , 2002, 24, 15-30.	2.8	9
68	Characterization of substance P-membrane interaction by transferred nuclear Overhauser effect. <i>Biopolymers</i> , 2000, 54, 297-306.	2.4	22
69	Optimisation of plant sterols incorporation in human keratinocyte plasma membrane and modulation of membrane fluidity. <i>Chemistry and Physics of Lipids</i> , 1999, 101, 255-265.	3.2	40
70	Heterologous expression of a deuterated membrane-integrated receptor and partial deuteration in methylotrophic yeasts. <i>Journal of Biomolecular NMR</i> , 1999, 14, 231-239.	2.8	34
71	Cholesterol Orientation and Dynamics in Dimyristoylphosphatidylcholine Bilayers: A Solid State Deuterium NMR Analysis. <i>Biophysical Journal</i> , 1999, 76, 351-359.	0.5	93
72	Plant sterols: a neutron diffraction study of sitosterol and stigmasterol in soybean phosphatidylcholine membranes. <i>Biophysical Chemistry</i> , 1998, 75, 45-55.	2.8	21

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73	Influence of Annexin V on the Structure and Dynamics of Phosphatidylcholine/Phosphatidylserine Bilayers: A Fluorescence and NMR Study. <i>Biochemistry</i> , 1998, 37, 1403-1410.	2.5	55
74	Structure/antigenicity relationship of cyclic and linear peptides mimicking the V3 loop of HTV2 envelope glycoprotein. <i>Research in Virology</i> , 1998, 149, 363-373.	0.7	1
75	Preparation of Oriented Lipid Bilayer on Ultrathin Polymers for Solid-State NMR Analyses of Peptide-Membrane Interactions. <i>Journal of Magnetic Resonance</i> , 1997, 124, 455-458.	2.1	21
76	Synthesis of Deuterium-Labeled Plant Sterols and Analysis of Their Side-Chain Mobility by Solid State Deuterium NMR. <i>Journal of Organic Chemistry</i> , 1996, 61, 4252-4257.	3.2	22
77	Composition and phase behaviour of polar lipids isolated from <i>Spirulina maxima</i> cells grown in a perdeuterated medium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1284, 196-202.	2.6	7
78	Expression and pharmacological characterization of the human $\mu$ -opioid receptor in the methylotrophic yeast <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 1996, 394, 268-272.	2.8	52
79	Structural Analysis of the Carboxyl Terminal Peptide From Human Chorionic Gonadotropin $\beta$ -Subunit by Two-Dimensional Nuclear Magnetic Resonance Spectroscopy. <i>American Journal of Reproductive Immunology</i> , 1996, 35, 156-162.	1.2	4
80	Studies on the Topography of Biomembranes: Regioselective Photolabelling in Vesicles with the Tandem Use of Cholesterol and a Photoactivable Transmembrane Phospholipidic Probe. <i>Chemistry - A European Journal</i> , 1996, 2, 129-138.	3.3	32
81	A transferred NOE study of a tricyclic analog of acyclovir bound to thymidine kinase. <i>Journal of Biomolecular NMR</i> , 1996, 8, 261-272.	2.8	8
82	Ability of clionasterol and poriferasterol (24-epimers of sitosterol and stigmasterol) to regulate membrane lipid dynamics. <i>Chemistry and Physics of Lipids</i> , 1996, 84, 117-121.	3.2	23
83	X-ray structure determination of a chiral synthon, essential for the synthesis of 25-2H-stigmasterol. <i>Journal of Chemical Crystallography</i> , 1995, 25, 783-786.	1.1	1
84	Selective Photolabeling near the Middle of Bilayers with a Photosensitive Transmembrane Probe. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 259-261.	4.4	20
85	Selektive Photomarkierung in der Mitte von Doppelschichten mit einer photosensitiven Transmembransonde. <i>Angewandte Chemie</i> , 1993, 105, 302-304.	2.0	5
86	Low cost production of perdeuterated biomass using methylotrophic yeasts. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1993, 33, 1053-1063.	1.0	16
87	$^1\text{H}$ nuclear magnetic resonance determination of the membrane-bound conformation of senktide, a highly selective neurokinin B agonist. <i>Journal of Biomolecular NMR</i> , 1993, 3, 443-61.	2.8	18
88	The interaction of various cholesterol $\delta^5$ -ancestors <sup>TM</sup> with lipid membranes: a $^2\text{H}$ -NMR study on oriented bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1105, 213-220.	2.6	28
89	Deuterium-NMR investigation of plant sterol effects on soybean phosphatidylcholine acyl chain ordering. <i>Chemistry and Physics of Lipids</i> , 1992, 63, 235-241.	3.2	33
90	Differential effects of plant sterols on water permeability and on acyl chain ordering of soybean phosphatidylcholine bilayers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 6926-6930.	7.1	212

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91	Tricyclohexaprenol and an octaprenediol, two of the "primitive" amphiphilic lipids do improve phospholipidic membranes. <i>Tetrahedron</i> , 1990, 46, 3143-3154.	1.9	19
92	Transferred nuclear Overhauser effect analyses of membrane-bound enkephalin analogs by proton nuclear magnetic resonance: correlation between activities and membrane-bound conformations. <i>Biochemistry</i> , 1990, 29, 65-75.	2.5	97
93	The Conformation of Cycloartenol Investigated by NMR and Molecular Mechanics. <i>Helvetica Chimica Acta</i> , 1989, 72, 1-13.	1.6	35
94	Comparison of the effects of inserted C40- and C50-terminally dihydroxylated carotenoids on the mechanical properties of various phospholipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 903, 132-141.	2.6	94
95	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Influence of vesicle size, solute, temperature, cholesterol and three $\beta$ -dihydroxycarotenoids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 859, 1-9.	2.6	58
96	Osmotic swelling of unilamellar vesicles by the stopped-flow light scattering method. Elastic properties of vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 860, 525-530.	2.6	34
97	Organization of Carotenoid-Phospholipid Bilayer Systems. Incorporation of Zeaxanthin, Astaxanthin, and their C50 Homologues into Dimyristoylphosphatidylcholine Vesicles. <i>Helvetica Chimica Acta</i> , 1986, 69, 12-24.	1.6	101